

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listing of claims in the application.

**Listing of Claims:**

1-13. Canceled

14. (Currently Amended) An apparatus for the decomposing fluorine compounds which contain at least one of PFC, HFC, SF<sub>6</sub> and NF<sub>3</sub>, said apparatus comprising a reactor having therein a fluorine compound decomposition catalyst for decomposing said fluorine compounds ~~at least one of PFC, HFC, SF<sub>6</sub> or NF<sub>3</sub>~~ charged upstream therein into said reactor in an upstream portion thereof and a harmful compound removing catalyst having a reaction temperature of 650-850°C for the decomposition of at least one of SO<sub>2</sub>F<sub>2</sub> and ~~N<sub>2</sub>O~~ N<sub>2</sub>O, formed by said ~~decomposition~~ decomposition, charged into said reactor at a portion downstream of ~~said reactor therein~~ of where said decomposition catalyst is charged into said reactor; a heater for heating said catalysts in said reactor; a moisture supplying unit for adding moisture to said fluorine compound supplied to said reactor; an inert gas supplying unit for adding an inert gas as a diluent gas; and an oxygen supplying unit for adding oxygen or an oxygen-containing gas to a gas containing at least one of ~~HF, CO, SO<sub>2</sub>F<sub>2</sub>~~ and N<sub>2</sub>O formed by decomposition of said fluorine compounds.

15. (Canceled)

16. (Currently Amended) An apparatus for the decomposing fluorine compounds as claimed in claim 14, wherein said harmful compound removing catalyst for the decomposition of at least one of ~~CO~~,  $\text{SO}_2\text{F}_2$  and ~~N<sub>2</sub>O~~ N<sub>2</sub>O, contains at least one component selected from Pd, Pt, Cu, Mn, Fe, ~~Co~~, Rh, Ir and ~~Au~~ Au, in the form of a metal or an oxide.

17. (Previously Presented) An apparatus for the decomposing fluorine compounds as claimed in claim 14, wherein said harmful compound removing catalyst for the decomposition of at least one of  $\text{SO}_2\text{F}_2$  and  $\text{N}_2\text{O}$  is selected from a catalyst of Pd and La carried on alumina, a catalyst of Pt and La carried on alumina, a catalyst of Rh and La carried on alumina, a catalyst of Au and La carried on alumina, a catalyst of Ir and La carried on alumina, a catalyst of Pd carried on alumina, a catalyst of Pt carried on alumina, a catalyst of Cu carried on alumina, a catalyst of Mn carried on alumina, a catalyst of Pd and W carried on titania and a catalyst of Co carried on alumina.

18. (Previously Presented) An apparatus for the decomposing fluorine compounds as claimed in claim 14, further comprising a gas scrubbing tower for removing hydrogen fluoride and other water soluble components from a gas

discharged from said reactor by contacting said gas with water or an alkaline aqueous solution.

19. (Previously Presented) An apparatus according to claim 14, wherein said catalyst for decomposing fluorine compounds includes a combination of aluminum and nickel in the form of an oxide.

20. (Canceled)